**Arizona Department of Water Resources**
Water Management Divsion
P.O. Box 36020 Phoenix, Arizona 85067-6020
(602) 771-8500 • www.azwater.gov

MAY 21 2012

# Notice of Intent to Abandon a Well

**FEE $150.00**

- Review instructions and the Well Abandonment Handbook prior to completing form with black or blue ink.
- You must include with your Notice:
  - Well construction diagram showing all existing well construction features listed in Section 5 and the proposed abandonment specifications listed in Section 6.
- Authority for fee: A.R.S. §45-113 and A.A.C. R12-15-104

** PLEASE PRINT CLEARLY **

| AMA / INA | B | SB |
|---|---|---|
| RECEIVED 5/21/12 | DATE | WS |
| ISSUED 5/22/12 | DATE | WQARF LLL CERCLA |

FILE NUMBER: C(2-2)26BBB

WELL REGISTRATION NUMBER: 55 - 211693

## SECTION 1 REGISTRY INFORMATION

### Well Type

CHECK ONE

- ☐ Domestic
- ☐ Stock
- ☐ Irrigation
- ☐ Municipal
- ☒ Monitor / Piezometer
- ☐ Geotechnical
- ☐ Mineral Exploration
- ☐ Other (*please specify*):

ORIGINAL WELL OWNER (IF KNOWN): Special AZ Properties-I, LLC

ORIGINAL WELL DRILLING FIRM (IF KNOWN): Geomechanics Southwest, Inc.

DRILL DATE (IF KNOWN): 04/07/05

### Location of Well

WELL LOCATION ADDRESS (IF ANY): SEC Chandler Heights Blvd & Rainbow Valley Rd.

| TOWNSHIP (N/S) | RANGE (E/W) | SECTION | 160 ACRE | 40 ACRE | 10 ACRE |
|---|---|---|---|---|---|
| 2 S | 2 W | 26 | NW ¼ | NW ¼ | NW ¼ |

COUNTY ASSESSOR'S PARCEL ID NUMBER: BOOK | MAP | PARCEL

COUNTY WHERE WELL IS LOCATED:

LATITUDE: ° Degrees ' Minutes " N Seconds

LONGITUDE: ° Degrees ' Minutes " W Seconds

METHOD OF LATITUDE/LONGITUDE (CHECK ONE): ☐ *GPS: Hand-Held ☐ USGS Quad Map ☐ Conventional Survey ☐ *GPS: Survey-Grade

*IF GPS WAS USED, GEOGRAPHIC COORDINATE DATUM (CHECK ONE): ☐ NAD-83 ☐ Other (*please specify*):

## SECTION 2 OWNER INFORMATION

### Well Owner

FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL: ADEQ

MAILING ADDRESS: 1110 W. Washington St.

CITY / STATE / ZIP CODE: Phoenix, AZ 85007

CONTACT PERSON NAME AND TITLE: Samar Bhuyan, Project Director

TELEPHONE NUMBER: 602-771-4252 FAX: 602-771-4346

### Landowner (if different from Well Owner)

FULL NAME OF COMPANY, GOVERNMENT AGENCY, OR INDIVIDUAL: Special AZ Properties-I, LLC

MAILING ADDRESS: 5090 N. 40th St.

CITY / STATE / ZIP CODE: Phoenix, AZ 85018

CONTACT PERSON NAME AND TITLE: Peter Teiche, Project Manager

TELEPHONE NUMBER: 602-468-0800 FAX:

## SECTION 3 ABANDONMENT AUTHORIZATION

### Drilling Firm

NAME: Geomechanics Southwest, Inc.

DWR LICENSE NUMBER: 498 ROC LICENSE CATEGORY: A-04

TELEPHONE NUMBER: 602-252-0559, EX 202 FAX: 602-252-0721

### Consultant (if applicable)

CONSULTING FIRM: Brown & Caldwell

CONTACT PERSON NAME: Randy Bauer

TELEPHONE NUMBER: 602-567-3860 FAX: 602-567-4001

E-MAIL ADDRESS: rbauer@brwncald.com

## SECTION 4

| Questions | Yes | No | If Yes: |
|---|---|---|---|
| 1. To your knowledge, is there any information that exists which indicates that the water in this well has been, may be, or is contaminated? | X | | EXPLAIN (ATTACH ADDITIONAL PAGE IF NECESSARY) WQARF area |
| 2. Is there another well name or identification number associated with this well? (e.g., Lot 3 Well, MW-1,etc.) | X | | PLEASE STATE TW-2 |
| 3. Was the well casing video logged? | | X | |
| 4. Why is the well being abandoned? | Well no longer needed. | | |



GSI Job # 185-12P

## Notice of Intent to Abandon a Well

WELL REGISTRATION NUMBER
55 - 211693

Provide a well construction diagram showing all existing well construction features listed in Section 5 and the proposed abandonment specifications listed in Section 6.

**SECTION 5 ORIGINAL WELL CONSTRUCTION DESIGN** (attach additional page if needed)

**Existing Borehole**

| DEPTH FROM SURFACE FROM (feet) | TO (feet) | BOREHOLE DIAMETER (inches) |
|---|---|---|
| 0 | 65 | 8 |
| | | |
| | | |

**Existing Casing** (to the best of your knowledge)

| DEPTH FROM SURFACE FROM (feet) | TO (feet) | OUTER DIAMETER (inches) | MATERIAL TYPE (T): STEEL | PVC | ABS | IF OTHER TYPE, DESCRIBE | PERFORATION TYPE (T): BLANK OR NONE | WIRE WRAP | SHUTTER SCREEN | MILLS KNIFE | SLOTTED | IF OTHER TYPE, DESCRIBE | SLOT SIZE IF ANY (inches) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 50 | 2 | | X | | | X | | | | | | |
| 50 | 65 | 2 | | X | | | | | | | X | | 0.020" |
| | | | | | | | | | | | | | |

Condition of casing: [X] Good [ ] Fair [ ] Poor

**Existing Annular Material** (to the best of your knowledge)

| DEPTH FROM SURFACE FROM (feet) | TO (feet) | ANNULAR MATERIAL TYPE (T): NONE | CONCRETE | NEAT CEMENT OR CEMENT GROUT | CEMENT-BENTONITE GROUT | BENTONITE: GROUT | CHIPS | PELLETS | IF OTHER TYPE OF ANNULAR MATERIAL, DESCRIBE | FILTER PACK: SAND | GRAVEL | SIZE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 18 | | | X | | | | | | | | |
| 18 | 20 | | | | | | | X | | | | |
| 20 | 65 | | | | | | | | | X | | 10x20 |

**SECTION 6 PROPOSED WELL ABANDONMENT DESIGN** (attach additional page if needed)

DATE ABANDONMENT IS TO BEGIN

Refer to ADWR's Well Abandonment Handbook for additional information.

**Casing Treatment**

| DEPTH FROM SURFACE FROM (feet) | TO (feet) | TREATMENT TYPE (T): SONAR JET | BRUSH OR SCRAPE | MILLS KNIFE | CASING REMOVAL (explain in Remarks) | IF OTHER TYPE, DESCRIBE OR IF CASING IS TO BE PERFORATED, DESCRIBE SPACING AND SIZE OF PERFORATIONS TO BE ADDED |
|---|---|---|---|---|---|---|
| none | | | | | | |
| | | | | | | |
| | | | | | | |

**Sealing or Fill Material**

| DEPTH FROM SURFACE FROM (feet) | TO (feet) | MATERIAL TYPE (T): NEAT CEMENT | CONCRETE | SAND-CEMENT GROUT | CEMENT-BENTONITE GROUT | SAND-BENTONITE GROUT | HIGH SOLIDS BENTONITE: GROUT | CHIPS | PELLETS | SAND | MIXING RATIO by (check one) [ ] Weight [ ] Volume | ESTIMATED VOLUME OF MATERIAL (cubic feet) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 65 | X | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

**Proposed Abandonment Method** (See Well Abandonment Handbook)

CHECK ONE
- [ ] Standard Method
- [ ] Alternative 1
- [ ] Alternative 2
- [X] Alternative 3
- [ ] Alternative 4:
  - [ ] Variance Option *
- [ ] Alternative 5:
  - [ ] Variance Option 1*
  - [ ] Variance Option 2*
- [ ] Other *(please specify)*:

* requires a letter requesting a variance

**Emplacement Method of Sealing or Fill Material**

CHECK ONE
- [ ] Gravity
- [ ] Pressure Grouting
- [X] Tremie Pumped
- [ ] Other *(please specify)*:

REMARKS

*I state that this notice is filed in compliance with A.R.S. § 45-594 and A.A.C. R12-15-816 and is complete and correct to the best of my knowledge and belief.*

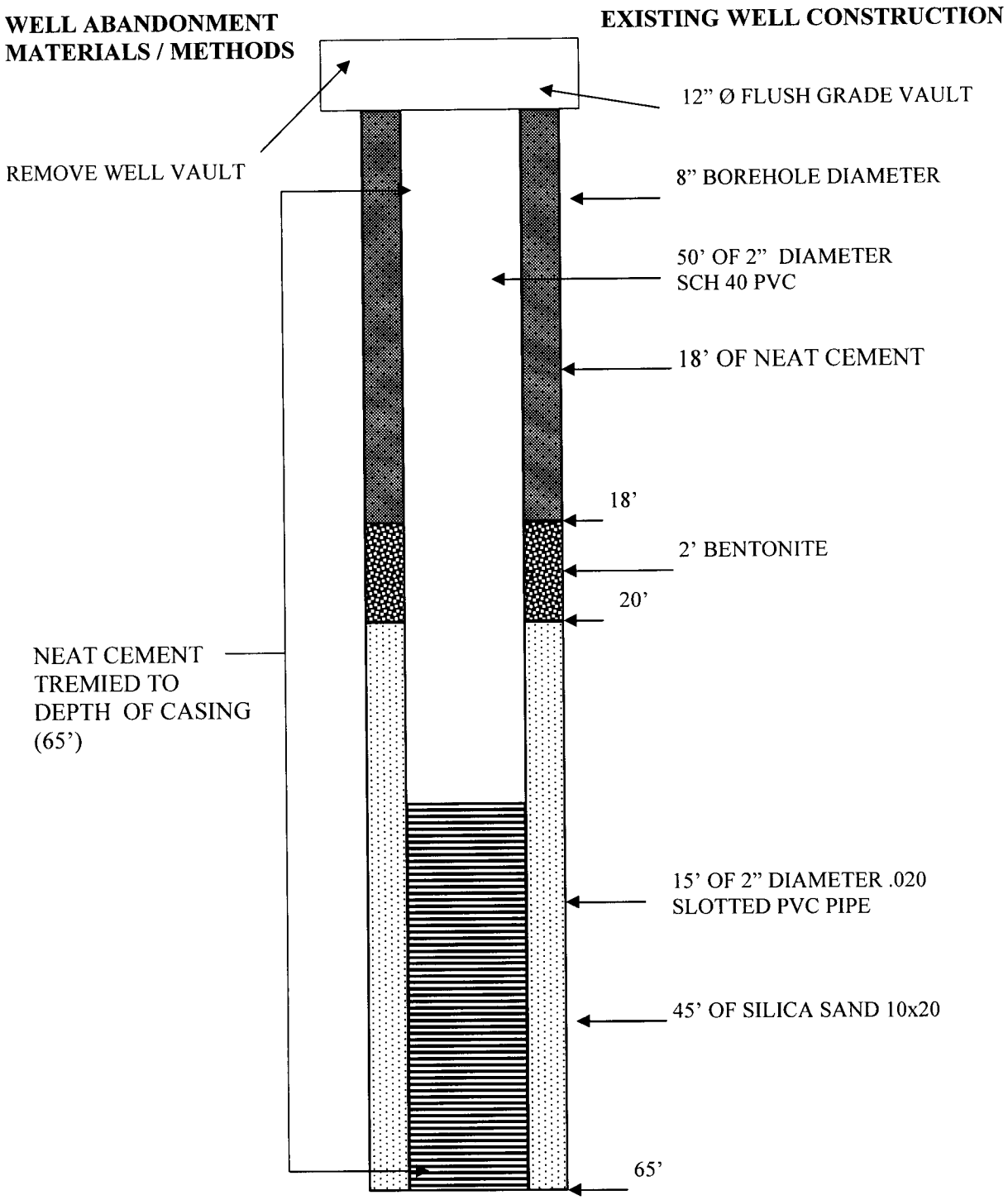
TYPE OR PRINT NAME AND TITLE: Samar Bhuyan, Project Director

SIGNATURE OF WELL OWNER: Peter Teiche, Assistant Secretary / Project Manager — DATE: 5/17/2012

TYPE OR PRINT NAME AND TITLE: Peter Teiche, Project Manager

SIGNATURE OF LANDOWNER, IF APPLICABLE (SEE INSTRUCTIONS): Samar Bhuyan — DATE: 5/18/12

# WELL ABANDONMENT DIAGRAM




WELL OWNER: ADEQ (55-211693) **TW-2**

DRILLER: Geomechanics Southwest, Inc. (Lic. #498)

**Printed: 5/21/2012 10:40:41 AM**

# Arizona Department of Water Resources

3550 N Central Ave.
Phoenix AZ 85012

Customer:

GEOMECHANICS SOUTHWEST, INC.
5435 W. MOHAVE ST.
PHOENIX, AZ 85043

Receipt #: 12-22787
Office: MAIN OFFICE
Receipt Date: 05/21/2012
Sale Type: IN_PERSON
Cashier: WRSYM

| Item No. | Index | AOBJ | Description | Ref ID | Qty | Unit Price | Ext Price |
|---|---|---|---|---|---|---|---|
| 67487 | 15245 | 4439-TT | Notice of intention to abandon a well | 211693 | 1 | 150.00 | 150.00 |
| | | | | | | **RECEIPT TOTAL:** | **150.00** |

Payment type: CHECK
Amount Paid: $150.00
Payment Received Date: 05/21/2012

Check # 11320

Notes: FROM TTA.

No refund without valid receipt

**ARIZONA DEPARTMENT OF WATER RESOURCES**
3550 N. Central Avenue, Phoenix, Arizona 85012
Telephone (602) 771-8500
Fax (602) 771-8691

May 21, 2012

**JANICE K. BREWER**
**Governor**

**SANDRA A. FABRITZ-WHITNEY**
**Director**

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
1110 W WASHINGTON STREET
ATTN: SAMAR BHUYAN, STATE LEAD UNIT
PHOENIX, AZ 85007

Registration No. 55-211693
File No. C(2-2) 26 BBB

Dear Applicant:

Enclosed is a copy of the Notice of Intent (NOI) to Abandon a Well. This NOI, which was recently filed with this Department is being returned to you as evidence of your compliance with ARS § 45-594; R12-15-816. The enclosed Well Owners Notification of Abandonment is to be submitted when the well has been properly abandoned. The well abandonment card and Abandonment Completion Report forms have been sent to your driller. He may not begin abandonment until he has received the well abandonment card. If you change drillers, you must supply this Department with the new driller's identity. Well abandonments shall be performed only by a licensed well drilling contractor or single well licensee.

ARS §45-594; R12-15-816(K) requires the registered well owner to submit a Well Owners Notification of Abandonment form within thirty (30) days after the abandonment of the well. It also requires the driller to furnish this Department a complete and accurate Well Abandonment Report within thirty (30) days after completion of abandonment. You should insist, and ensure, that both of these are done.

Sincerely,

David Christiana
NOI Unit
Water Management Support Section

Enclosures

Printed on recycled paper. Each ton of recycled paper saves 7,000 gallons of water.

# ARIZONA DEPARTMENT OF WATER RESOURCES

## WATER MANAGEMENT SUPPORT SECTION

3550 N. Central Avenue
Phoenix, Arizona 85012

## ABANDON

**Notice! This well is located in or near an area of groundwater contamination** (WQARF/CERCLA/DOD or Other). Be advised that **special requirements may apply.** Please refer to the attached letter(s) to the well owner for details.

THIS AUTHORIZATION SHALL BE IN POSSESSION OF THE DRILLER DURING ALL DRILL OPERATIONS

WELL REGISTRATION NO: 55-211693 TW-2

AUTHORIZED DRILLER: GEOMECHANICS SOUTHWEST, INC. LICENSE NO: 498

NOTICE OF INTENTION TO ABANDON A MONITOR WELL(S) HAS BEEN FILED WITH THE DEPARTMENT BY:

WELL OWNER: ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY 1110 W WASHINGTON STREET ATTN: SAMAR BHUYAN, STATE LEAD UNIT PHOENIX, AZ 85007

THE WELL(S) IS/ARE TO BE LOCATED IN THE:

NW ¼ OF THE NW ¼ OF THE NW ¼ SECTION 26 TOWNSHIP 2 SOUTH RANGE 2 WEST

NO. OF WELLS IN THIS PROJECT: 1 ASSESSOR PARCEL NO: 400-64-015A

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON THE DAY OF

WATER MANAGEMENT SUPPORT

THE DRILLER MUST FILE A WELL ABANDONMENT COMPLETION REPORT WITHIN 30 DAYS OF ABANDONMENT

GREAT SEAL OF THE STATE OF ARIZONA
DITAT DEUS
1912

ILLEGAL WELL

**Arizona Department of Water Resources**
Water Management Support Section
P.O. Box 458 • Phoenix, Arizona 85001-0458
(602) 771-8500 • (800) 352-8488
www.azwater.gov

# Notice of Intent to Drill, Deepen, or Modify a *Monitor / Piezometer / Environmental* Well

FEE

MAR 27 2006

- Review instructions prior to completing form in black or blue ink.
- You must include with your Notice:
  - $150 check or money order for the filing fee.
  - Well construction diagram, labeling all specifications listed in Section 6.
- Authority for fee: A.R.S. § 45-596.

MAR 15 2006

| AMA / INA | B | SB |
|---|---|---|
| PAX | 09 | |
| RECEIVED DATE | WS | |
| | 08 | |
| ISSUED DATE | WQAR | CERCLA |
| | LLL | |

FILE NUMBER: C(2-2)26BBB
WELL REGISTRATION NUMBER: 55-211693

** PLEASE PRINT CLEARLY **

## SECTION 1: REGISTRY INFORMATION

**Well Type** — CHECK ONE
- [X] Monitor
- [ ] Piezometer
- [ ] Vadose Zone
- [ ] Air Sparging
- [ ] Soil Vapor Extraction
- [ ] Other (*please specify*):

**Proposed Action** — CHECK ONE
- [X] Drill New Well
- [ ] Deepen
- [ ] Modify

*If Deepening or Modifying:*
WELL REGISTRATION NUMBER: 55 -

**Location of Well**
WELL LOCATION ADDRESS (IF ANY): SEC of Chandler Heights & Rainbow Valley Roads

| TOWNSHIP (N/S) | RANGE (E/W) | SECTION | 160 ACRE | 40 ACRE | 10 ACRE |
|---|---|---|---|---|---|
| 2S | 2W | 26 | NW ¼ | NW ¼ | NW ¼ |

COUNTY ASSESSOR'S PARCEL ID NUMBER: BOOK 400 | MAP 64 | PARCEL 015A
COUNTY WHERE WELL IS LOCATED: Maricopa

## SECTION 2: OWNER INFORMATION

**Well Owner**
FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL: NNP-III ESTRELLA MOUNTAIN RANCH, LLC
MAILING ADDRESS: 3010 E. CAMELBACK RD., STE. 100
CITY / STATE / ZIP CODE: PHOENIX, AZ 85016
CONTACT PERSON NAME AND TITLE: PHILLIP LUNA, ASST. VICE PRESIDENT
TELEPHONE NUMBER: 602-468-0800 | FAX: 602-468-1633

**Landowner** (if different from Well Owner)
FULL NAME OF COMPANY, GOVERNMENT AGENCY, OR INDIVIDUAL: GOODYEAR ESP, LLC
MAILING ADDRESS: 8601 N. SCOTTSDALE RD., STE. 238
CITY / STATE / ZIP CODE: SCOTTSDALE, AZ 85253
CONTACT PERSON NAME AND TITLE: TODD TUPPER
TELEPHONE NUMBER: | FAX:

## SECTION 3: DRILLING AUTHORIZATION

**Drilling Firm**
NAME: Geomechanics Southwest Inc.
DWR LICENSE NUMBER: 498 | ROC LICENSE CATEGORY: A-04
TELEPHONE NUMBER: 602-252-0559 | FAX: 602-252-0721
E-MAIL ADDRESS: gsijones@msn.com

**Consultant** (if applicable)
CONSULTING FIRM: Terracon Consultants, Inc.
CONTACT PERSON NAME: David Matson
TELEPHONE NUMBER: 480-897-8200 | FAX: 480-897-1133
E-MAIL ADDRESS: dmmatson@terracon.com

## SECTION 4

| Questions | Yes | No | Explanation: |
|---|---|---|---|
| 1. Are all annular spaces between the casing(s) and the borehole for the placement of grout at least 2 inches? | X | | 2-inch annular spaces are special standards required for wells located in and near groundwater contamination sites (such as CERCLA, WQARF, DOD, LUST). |
| 2. Is the screened or perforated interval of casing greater than 100 feet in length? | | X | 100-foot maximum screen intervals are a special standard for wells located in and near groundwater contamination sites (such as CERCLA, WQARF, DOD, LUST). |
| 3. Are you requesting a variance to use thermoplastic casing in lieu of steel casing in the surface seal? | X | | The wells must be constructed in a vault as defined in A.A.C. R12-15-801(27). |
| 4. Is there another well name or identification number associated with this well? (e.g., MW-1, PZ2, 06-04, etc.) | X | | IF YES, PLEASE STATE TW-2 |
| 5. Have construction plans been coordinated with the Arizona Department of Environmental Quality? | | X | IF YES, PLEASE STATE AGENCY CONTACT & PHONE NUMBER |
| 6. For monitor wells, is dedicated pump equipment to be installed? | | X | IF YES, PLEASE STATE DESIGN PUMP CAPACITY Gallons per Minute |
| 7. Is this well a new well located in an Active Management Area AND intended to pump water for the purpose of remediating groundwater? | | X | IF YES, UNLESS THE WELL IS A REPLACEMENT WELL AND THE TOTAL NUMBER OF OPERABLE WELLS ON THE SITE IS NOT INCREASING, YOU MUST ALSO FILE A SUPPLEMENTAL FORM A.R.S. § 45-454(C) & (F). *(See instructions)* |
| 8. Will the well registration number be stamped on the vault cover or on the upper part of the casing? | X | | IF NO, WHERE WILL THE REGISTRATION NUMBER BE PLACED? |

ILLEGAL WELL

**Notice of Intent to Drill, Deepen, or Modify a *Monitor / Piezometer / Environmental* Well**

MAR 2 7 2006

WELL REGISTRATION NUMBER
55 -

## SECTION 5. WELL CONSTRUCTION DETAILS

**Drill Method**

CHECK ONE

- ☐ Air Rotary
- ☒ Bored or Augered
- ☐ Cable Tool
- ☐ Dual Rotary
- ☐ Mud Rotary
- ☐ Reverse Circulation
- ☐ Driven
- ☐ Jetted
- ☐ Air Percussion / Odex Tubing
- ☐ Other (*please specify*):

4-7-05

DATE CONSTRUCTION TO BEGIN

**Method of Well Development**

CHECK ONE

- ☐ Airlift
- ☒ Bail
- ☐ Surge Block
- ☐ Surge Pump
- ☐ Other (*please specify*):

**Grout Emplacement Method**

CHECK ONE

- ☒ Gravity
- ☐ Pressure Grout
- ☒ Tremie
- ☐ Other (*please specify*):

**Method of Sealing at Reduction Points**

CHECK ONE

- ☐ None
- ☐ Welded
- ☐ Swedged
- ☐ Packed
- ☐ Other (*please specify*):

N/A

**Surface or Conductor Casing**

CHECK ONE

- ☒ Flush Mount in a vault
- ☐ Extend 1' above grade

## SECTION 6. PROPOSED WELL CONSTRUCTION PLAN (attach additional page if needed)

Attach a well construction diagram labeling all specifications below.

**Borehole**

| DEPTH FROM SURFACE FROM (feet) | DEPTH FROM SURFACE TO (feet) | BOREHOLE DIAMETER (inches) |
|---|---|---|
| 0 | 65 | 8 |

**Casing**

| DEPTH FROM SURFACE FROM (feet) | DEPTH FROM SURFACE TO (feet) | OUTER DIAMETER (inches) | MATERIAL TYPE (T): STEEL | PVC | ABS | IF OTHER TYPE, DESCRIBE | PERFORATION TYPE (T): BLANK OR NONE | WIRE WRAP | SHUTTER SCREEN | MILLS KNIFE | SLOTTED | IF OTHER TYPE, DESCRIBE | SLOT SIZE IF ANY (inches) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 65 | 2" | | X | | | X | | | | | | |
| 50 | 65 | 2" | | X | | | | | | | X | | 0.020 |

**Annular Material**

| DEPTH FROM SURFACE FROM (feet) | DEPTH FROM SURFACE TO (feet) | ANNULAR MATERIAL TYPE (T): NONE | CONCRETE | NEAT CEMENT OR CEMENT GROUT | CEMENT-BENTONITE GROUT | BENTONITE: GROUT | CHIPS | PELLETS | IF OTHER TYPE OF ANNULAR MATERIAL, DESCRIBE | FILTER PACK: SAND | GRAVEL | SIZE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 18 | | | X | | | | | | | | |
| 18 | 20 | | | | | | | X | | | | |
| 20 | 65 | | | | | | | | | X | | Silica 10x20 |

IF THIS WELL HAS NESTED CASINGS, SPECIFY NUMBER OF CASING STRINGS

EXPECTED DEPTH TO WATER

Feet Below Ground Surface

*I state that this notice is filed in compliance with A.R.S. § 45-596 and is complete and correct to the best of my knowledge and belief.*

TYPE OR PRINT NAME AND TITLE: William Pennington, ABSN, VP

SIGNATURE OF WELL OWNER: [signature] DATE: 3-7-06

TYPE OR PRINT NAME AND TITLE: STEPHEN E. RENNECKAR, MANAGER

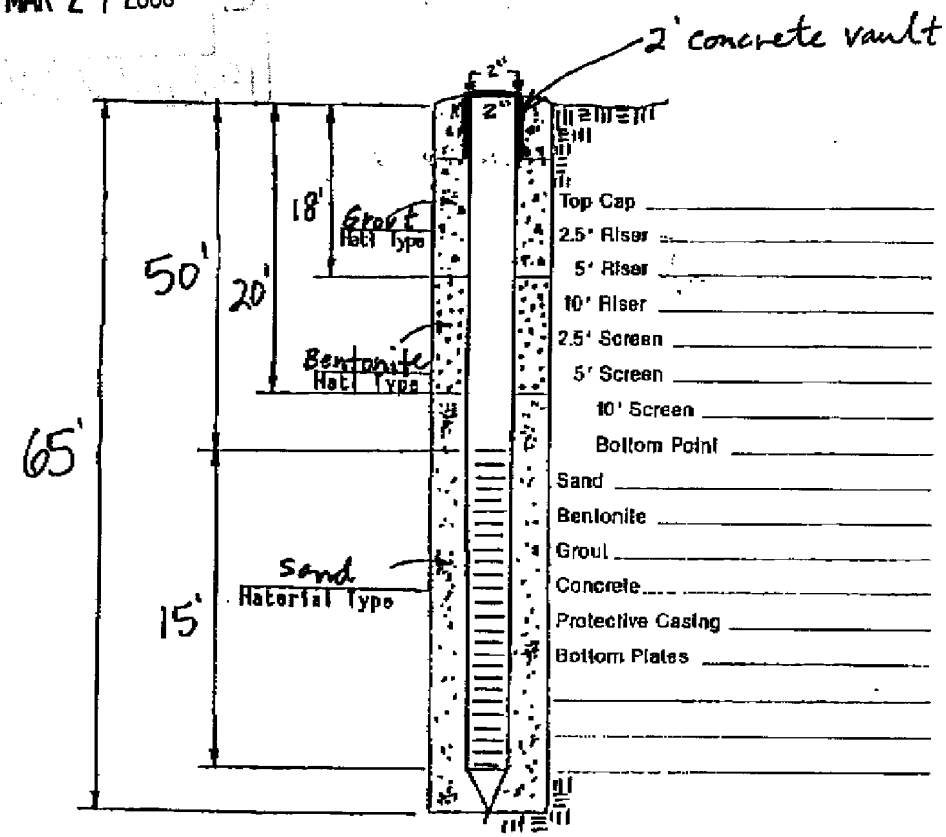
SIGNATURE OF LANDOWNER, IF APPLICABLE (SEE INSTRUCTIONS): [signature] DATE

ILLEGAL WELL TW-2

# MONITORING WELL DETAILS

1. Fill in applicable dimensions and identify backfill materials
2. Sketch screen installation (if more than one section used)

MAR 2 7 2006




Protective steel cover? ☐ Yes (Lock Type) _____

Type _____ (Key number _____)

☐ No

Screen slot size or fabric type 0.020

# BORING ELEVATIONS

Benchmark _____

Elevation _____ ☐ Assumed ☐ Given

| Boring/ Turning Point | Backsight | Height Instrument | Foresight | Elevation |
|---|---|---|---|---|
| | | | | |

NO. 699 P. 2
MAR. 15. 2006 3:15PM TERRACON
PAGE 2/12 * RCVD AT 3/15/2006 3:07:33 PM [US Mountain Standard Time] * SVR:PHX-ASHTRFAX1/6 * DNIS:5149 * CSID:4808971133 * DURATION (mm-ss):06-16

**Pejman Eshraghi, P.E.**
Principal Engineer

BROWN AND CALDWELL

201 East Washington Street
Suite 500
Phoenix, AZ 85004
Tel: (602) 567-3823
Fax: (602) 567-4001
peshraghi@brwncald.com

*Environmental Engineers & Consultants*

**, Inc.**
*ion"*

RECEIVED
MAR 2 7 2006

ADWR Lic. No. 498
AROC Lic. No. 079441, Class. A-04

Ms. Shannon Reif
Arizona Department of Water Resources
3550 N. Central Ave., 2nd Floor
Phoenix, Arizona, 85012

ILLEGAL WELL

**RE: Request for Variance – Monitor Well(s)**
**NNPIII Estrella Mtn Ranch, LLC – T2S, R2W, Sec 26 NW of the NW of the NW**

Dear Ms. Reif:

Geomechanics Southwest, Inc. request variances for the construction of two (2) Monitor Well(s) at the above referenced site. All other construction practices will be in accordance with ADWR standards. The variances are as follows:

- The grout surface seal will be reduced to 18-feet below grade due to fluctuating shallow groundwater. (R12-15-811.B.1)

The Consultant that will be conducting the work is:

Terracon Consultants, Inc.
4685 S. Ash Ave., Suite H-4
Tempe, AZ 85282
Mr. David Matson
480-897-8200

If you have any questions, please call Dave Matson or myself. Thank you.

Sincerely,

**Geomechanics Southwest, Inc.**

Sandra Monroe for Greg Jones

Greg G. Jones
Operations Manager / Phoenix
TCI032406
GGJ/sm

# ILLEGAL WELL

MAR 27 2006

Arizona Department of Water Resources
Water Management Support Section
P.O. Box 458 • Phoenix, Arizona 85001-0458
(602) 771-8500 • (800) 352-8488
www.azwater.gov

MAR 27 2006

**Notice of Intent to Drill, Deepen, or Modify a *Monitor / Piezometer / Environmental* Well**

FEE

- Review instructions prior to completing form in black or blue ink.
- You must include with your Notice:
- $150 check or money order for the filing fee.
- Well construction diagram, labeling all specifications listed in Section 6.
- Authority for fee: A.R.S. § 45-596.

MAR 15 2006

| AMA / INA | | 8 | 58 |
|---|---|---|---|
| RECEIVED | DATE | WS | |
| ISSUED | DATE | WQAR | CERCLA |

FILE NUMBER

WELL REGISTRATION NUMBER 55 -

** PLEASE PRINT CLEARLY **

## SECTION 1: REGISTRY INFORMATION

**Well Type** (CHECK ONE)
- [X] Monitor
- [ ] Piezometer
- [ ] Vadose Zone
- [ ] Air Sparging
- [ ] Soil Vapor Extraction
- [ ] Other (*please specify*):

**Proposed Action** (CHECK ONE)
- [X] Drill New Well
- [ ] Deepen
- [ ] Modify

*If Deepening or Modifying:* WELL REGISTRATION NUMBER 55 -

**Location of Well**

WELL LOCATION ADDRESS (IF ANY): SEC of Chandler Heights & Rainbow Valley Roads

| TOWNSHIP (N/S) | RANGE (E/W) | SECTION | 160 ACRE | 40 ACRE | 10 ACRE |
|---|---|---|---|---|---|
| 2S | 2W | 26 | NW ¼ | NW ¼ | NW ¼ |

COUNTY ASSESSOR'S PARCEL ID NUMBER: BOOK 400 | MAP 64 | PARCEL 015A

COUNTY WHERE WELL IS LOCATED: Maricopa

## SECTION 2: OWNER INFORMATION

**Well Owner**

FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL: NNP-III ESTRELLA MOUNTAIN RANCH, LLC

MAILING ADDRESS: 3010 E. CAMELBACK RD., STE. 100

CITY / STATE / ZIP CODE: PHOENIX, AZ 85016

CONTACT PERSON NAME AND TITLE: PHILLIP LUNA, ASST. VICE PRESIDENT

TELEPHONE NUMBER: 602-468-0800 | FAX: 602-468-1633

**Landowner** (if different from Well Owner)

FULL NAME OF COMPANY, GOVERNMENT AGENCY, OR INDIVIDUAL: GOODYEAR ESP, LLC

MAILING ADDRESS: 8601 N. SCOTTSDALE RD., STE. 238

CITY / STATE / ZIP CODE: SCOTTSDALE, AZ 85253

CONTACT PERSON NAME AND TITLE: TODD TURPER

TELEPHONE NUMBER: | FAX:

## SECTION 3: DRILLING AUTHORIZATION

**Drilling Firm**

NAME: Geomechanics Southwest Inc.

DWR LICENSE NUMBER: 498 | ROC LICENSE CATEGORY: A-04

TELEPHONE NUMBER: 602-252-0559 | FAX: 602-252-0721

E-MAIL ADDRESS: gsijones@msn.com

**Consultant** (if applicable)

CONSULTING FIRM: Terracon Consultants, Inc.

CONTACT PERSON NAME: David Matson

TELEPHONE NUMBER: 480-897-8200 | FAX: 480-897-1133

E-MAIL ADDRESS: dmmatson@terracon.com

## SECTION 4:

| Questions | Yes | No | Explanation: |
|---|---|---|---|
| 1. Are all annular spaces between the casing(s) and the borehole for the placement of grout at least 2 inches? | X | | 2-inch annular spaces are special standards required for wells located in and near groundwater contamination sites (such as CERCLA, WQARF, DOD, LUST). |
| 2. Is the screened or perforated interval of casing greater than 100 feet in length? | | X | 100-foot maximum screen intervals are a special standard for wells located in and near groundwater contamination sites (such as CERCLA, WQARF, DOD, LUST). |
| 3. Are you requesting a variance to use thermoplastic casing in lieu of steel casing in the surface seal? | X | | The wells must be constructed in a vault as defined in A.A.C. R12-15-801(27). |
| 4. Is there another well name or identification number associated with this well? (e.g., MW-1, PZ2, 06-04, etc.) | X | | IF YES, PLEASE STATE: TW-2 |
| 5. Have construction plans been coordinated with the Arizona Department of Environmental Quality? | | X | IF YES, PLEASE STATE AGENCY CONTACT & PHONE NUMBER |

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Terracon
16000 College Boulevard
Lenexa, Kansas 66219

DATE 3/23/06 0160124

Invoice Number
Invoice Date
Office: PHX 65
Chargeable: Yes X No
Job No. 4505 1251
Description: Well Permits

PAY TO THE ORDER OF ADWR

Three hundred and 00/100 DOLLARS $ 300.00

NOT GOOD FOR MORE THAN $500.00

**Arizona Department of Water Resources**
Information Management Unit
P.O. Box 458 • Phoenix, Arizona 85001-0458
(602) 771-8627 • (800) 352-8488
www.azwater.gov

MAR 2 7 2006

# Well Driller Report and Well Log

THIS REPORT MUST BE FILED WITHIN **30 DAYS** OF COMPLETING THE WELL.

PLEASE PRINT CLEARLY USING BLACK OR BLUE INK

ILLEGAL WELL

| FILE NUMBER |
|---|
| WELL REGISTRATION NUMBER 55-211693 |
| PERMIT NUMBER (IF ISSUED) |

## SECTION 1. DRILLING AUTHORIZATION

**Drilling Firm**

| NAME | DWR LICENSE NUMBER |
|---|---|
| Geomechanics Southwest, Inc. | 498 |
| ADDRESS: 1212 S. 9th St. | TELEPHONE NUMBER: 602-252-0559 |
| CITY / STATE / ZIP: Phoenix, AZ 85034 | FAX: 602-252-0721 |

## SECTION 2. REGISTRY INFORMATION

**Well Owner**

FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL: NNPIII Estrella Mountain Ranch, LLC

MAILING ADDRESS: 3010 E. Camelback Rd., Ste. 100

CITY / STATE / ZIP CODE: Phoenix, AZ 85016

CONTACT PERSON NAME AND TITLE: Phillip Luna, Asst. Vice President

TELEPHONE NUMBER: 602-468-0800 FAX: 602-468-1633

WELL NAME (e.g., MW-1, PZ-3, Lot 25 Well, Smith Well, etc.): TW-2

**Location of Well**

WELL LOCATION ADDRESS (IF ANY): SEC Chandler Heights Blvd & Rainbow Valley Rd

| TOWNSHIP (N/S) | RANGE (E/W) | SECTION | 160 ACRE | 40 ACRE | 10 ACRE |
|---|---|---|---|---|---|
| 2 S | 2 W | 26 | NW ¼ | NW ¼ | NW ¼ |

| LATITUDE | | | LONGITUDE | | |
|---|---|---|---|---|---|
| ° Degrees | ' Minutes | "N Seconds | ° Degrees | ' Minutes | "W Seconds |

METHOD OF LATITUDE/LONGITUDE (CHECK ONE) ☐ *GPS: Hand-Held ☐ USGS Quad Map ☐ Conventional Survey ☐ *GPS: Survey-Grade

LAND SURFACE ELEVATION AT WELL: Feet Above Sea Level

METHOD OF ELEVATION (CHECK ONE) ☐ *GPS: Hand-Held ☐ USGS Quad Map ☐ Conventional Survey ☐ *GPS: Survey-Grade

*IF GPS WAS USED, GEOGRAPHIC COORDINATE DATUM (CHECK ONE) ☐ NAD-83 ☐ Other *(please specify)*:

| COUNTY | ASSESSOR'S PARCEL ID NUMBER BOOK | MAP | PARCEL |
|---|---|---|---|
| Maricopa | 400 | 64 | 015A |

## SECTION 3. WELL CONSTRUCTION DETAILS

**Drill Method**

CHECK ALL THAT APPLY
- ☐ Air Rotary
- ☒ Bored or Augered
- ☐ Cable Tool
- ☐ Dual Rotary
- ☐ Mud Rotary
- ☐ Reverse Circulation
- ☐ Driven
- ☐ Jetted
- ☐ Air Percussion / Odex Tubing
- ☐ Other *(please specify)*:

**Method of Well Development**

CHECK ALL THAT APPLY
- ☐ Airlift
- ☐ Bail
- ☐ Surge Block
- ☐ Surge Pump
- ☐ Other *(please specify)*: N/A

**Method of Sealing at Reduction Points**

CHECK ONE
- ☐ None
- ☐ Packed
- ☐ Swedged
- ☐ Welded
- ☐ Other *(please specify)*: N/A

**Condition of Well**

CHECK ONE
- ☐ Capped
- ☐ Pump Installed N/A

**Construction Dates**

DATE WELL CONSTRUCTION STARTED: 04/07/05

DATE WELL CONSTRUCTION COMPLETED: 03/20/06

*I state that this notice is filed in compliance with A.R.S. § 45-596 and is complete and correct to the best of my knowledge and belief.*

SIGNATURE OF QUALIFYING PARTY: [signature] DATE: 03/24/06

**Well Driller Report and Well Log**

ILLEGAL WELL

MAR 2 7 2006

TW-2

WELL REGISTRATION NUMBER
55 - 211693

## SECTION 4. WELL CONSTRUCTION DESIGN (AS BUILT) (attach additional page if needed)

**Depth**

| DEPTH OF BORING | DEPTH OF COMPLETED WELL |
|---|---|
| 65' Feet Below Land Surface | 65' Feet Below Land Surface |

**Water Level Information**

| STATIC WATER LEVEL | DATE MEASURED | TIME MEASURED | IF FLOWING WELL, METHOD OF FLOW REGULATION |
|---|---|---|---|
| 60' Feet Below Land Surface | * | | ☐ Valve ☐ Other: N/A |

*NOTE: GSI did not encounter GW on 04/07/05.

| Borehole | | | Installed Casing | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DEPTH FROM SURFACE | | | DEPTH FROM SURFACE | | | MATERIAL TYPE (T) | | | | PERFORATION TYPE (T) | | | | | | |
| FROM (feet) | TO (feet) | BOREHOLE DIAMETER (inches) | FROM (feet) | TO (feet) | OUTER DIAMETER (inches) | STEEL | PVC | ABS | IF OTHER TYPE, DESCRIBE | BLANK OR NONE | WIRE WRAP | SHUTTER SCREEN | MILLS KNIFE | SLOTTED | IF OTHER TYPE, DESCRIBE | SLOT SIZE IF ANY (inches) |
| 0 | 65 | 8 | 0 | 50 | 2 | | X | | | X | | | | | | |
| | | | 50 | 65 | 2 | | X | | | | | | | X | | 0.020 |
| | | | | | | | | | | | | | | | | |
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**Installed Annular Material**

| DEPTH FROM SURFACE | | ANNULAR MATERIAL TYPE (T) | | | | | | | | FILTER PACK | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | BENTONITE | | | | | | |
| FROM (feet) | TO (feet) | NONE | CONCRETE | NEAT CEMENT OR CEMENT GROUT | CEMENT-BENTONITE GROUT | GROUT | CHIPS | PELLETS | IF OTHER TYPE OF ANNULAR MATERIAL, DESCRIBE | SAND | GRAVEL | SIZE |
| 0 | 18 | | | X | | | | | | | | |
| 18 | 20 | | | | | | | X | | | | |
| 20 | 65 | | | | | | | | | X | | 10x20 |
| | | | | | | | | | | | | |
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ILLEGAL WELL

**Well Driller Report and Well Log**

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**SECTION 5. GEOLOGIC LOG OF WELL**

| DEPTH FROM SURFACE FROM (feet) | TO (feet) | Description<br>Describe material, grain size, color, etc. | Check ( T ) every interval where water was encountered (if known) |
|---|---|---|---|
| 0 | 65 | SILTY LEAN CLAY w/ trace GRAVEL | |
| | 60 | WATER (water was not present on 4/7/05) | |

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MAR 27 2006

ILLEGAL WELL

**Well Driller Report and Well Log**

WELL REGISTRATION NUMBER
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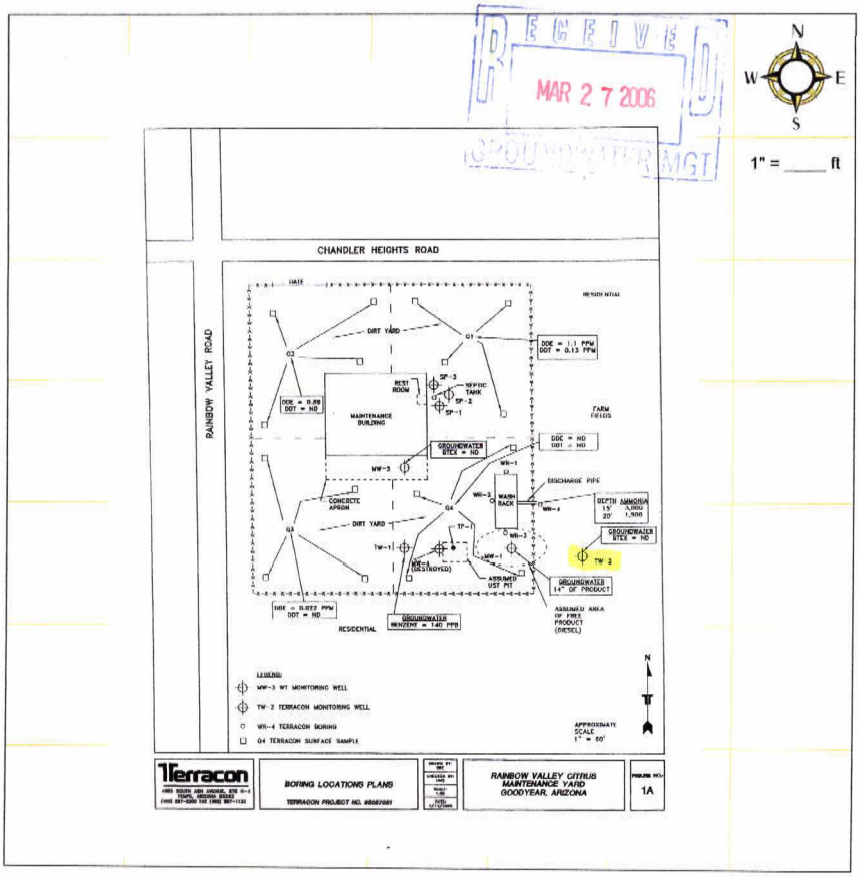
TW-2

**SECTION 6. WELL SITE PLAN**

| NAME OF WELL OWNER | COUNTY ASSESSOR'S PARCEL ID NUMBER | | |
|---|---|---|---|
| | BOOK | MAP | PARCEL |
| NNPIII Estrella Mountain Ranch, LLC | 400 | 64 | 015A |

- Please draw the following: (1) the boundaries of property on which the well was located; (2) the well location; (3) the locations of all septic tank systems and sewer systems on the property or within 100 feet of the well location, even if on neighboring properties; and (4) any permanent structures on the property that may aid in locating the well.
- Please indicate the distance between the well location and any septic tank system or sewer system.